Special Issue

Editorial Board Members' Collection Series: Advanced Metallic Biomaterials

Message from the Guest Editors

Bio-based materials often exhibit lower toxicity than traditional metals, alongside other novel characteristics, such as biodegradability. This is a new and interesting frontier for metal-based materials with the fast development of new alloys. In this Special Issue, we welcome articles that focus on:

Metal-based materials with the addition of biobased materials (single compounds or extracts with a biological origin such as oils, chitosan, gelatin, algae, by-products, and/or waste from the food industry). Functionalized or coated metals and metal-matrix composites are included.

New compositions or processing of biodegradable metals (such as magnesium, zinc, and iron alloys).

Coatings or surface modifications for modulation of the corrosion rate and degradation of biodegradable metals.

Methods for the characterization of biodegradable metals.

LCA and LCC evaluation of the production and processing of bio-based and biodegradable metals

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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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